HYPOTHESIS TESTING
-In hypothesis testing, evaluates 2 or more exclusive statement on a Population using sample data. NULL HYPOTHESIS > It is a hypothesis that says there is no statistical significance between two variable in the hypothesis. Alternate hypothesis > There is statistically significant relationship.
Steps in hypothesis testing - between variable. It is investing -
1) Make Initial Assumption (Ho). Ho-Null hypothesis . H, -> Alternate hypothesis
2) Collect Data. (avidences)
3) Gather evidences to reject the Null hypothesis or not reject null hypothesis
This lead us to Confusion Matrix - Ho HI Accept/ Do not refuse OK Type 2 Reject Type 1 OK
Type I error - Due to lack of evidence we have to reject NULL hypothesis/Ho.
by his car, but due to lack of exidence we have to reject solman than is guilty. But due to this Type I error, we lost the Justice to the life of people killed in the crosh.
Type 2 error - When we reject the alterate hypothesis and accept the null hypothesis.
Type 2 error, in which you mistakenly conclude an effect is not real, (due to chonce), when it really is real type 2 error, in which you mistakenly conclude than an effect is not real, (due to chonce), when it really is real type 2 error, in which you mistakenly conclude than an effect is not real, (due to chonce), when it really is real
Sample) Stabshie, P(Stabshie He true)
P-value < x -> reject Ho , p-value > x +> Foil to reject
Population Reality Check > Reality.
Ho nue no faise
raject Ho Type 1. Conclusion
Fai to reject to conclusion Type 2.
Type I error because in reality to is true but we reject it. It cannot happen. Type I error because in reality to is true but we reject to This is partiality.
Type I error be cause in reality Ho is true but we reject it. It cannot happen. Type 2 error is Ho is false but we failed to reject Ho. This is partiality. Type 2 error is Ho is false but we failed to reject Ho. This is partiality. Example - Consider a website. Suppose it is of white background and ave time. Example - Consider a website. Suppose it is of white background and ave time. Spent by austomen is equal or less than 20 minutes. Some one said if we change the colour, to mean ave spend time will be more than 20 minutes. The colour, to mean ave spend time will be more than 20 minutes. The colour, to mean ave spend time will be more than 20 minutes. The colour, to mean ave spend time will be more than 20 minutes. Step I - Ho: 11 20 minutes after change. Step 3 - Take sample n= 100. Suppose Step 3 - Take sample n= 100. Suppose Step 4 - p value: p(x > 25 minutes). Step 4 - p value: p(x > 25 minutes) Ho true)
Stop 4 - Project Ho. suppose Pralue = 0.03.
Step 5 - pvalue < x => Reject Ho, suppose Pvalue = 0.03. Step 5 - pvalue > x => Do not reject Ho, suppose Avalue = 0.5.